



**AMBLER
OLSEN SYSTEM**

KEASBEY & MATTISON COMPANY

AMBLER, PENNSYLVANIA

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The Ambler Olsen System

THE Ambler Olsen System is a method of providing light-weight structurally strong ceilings, walls, partitions, etc. A study of the following data will suggest other and varied uses.

This system consists of patented metal shapes, members, novel clips and hangers, together with a sheathing material to complete the job. This sheathing material may preferably be an asbestos composition board as:—Ambler 3D Asbestos Lumber, Ambler Linabestos, Asbestos Millboard, Marbleite, etc., but can also be gypsum board, insulating board, plywood or the like.

GENERAL: The Ambler Olsen System is a simplified design for residential, commercial or industrial use. It combines maximum strength and rigidity with a minimum of material. The installations are rapidly assembled without muss, fuss or litter. Ceilings may be hung at any desired height regardless of the building construction (wood, concrete, steel, etc.). Partitions may be placed to make any desired size of room. In new buildings, as well as old, the Ambler Olsen System is being specified because of its practicability and low cost, sturdy construction, speedy installation and modern design.

RECOGNIZED PRODUCT: Ambler Olsen System is neither new nor in the experimental stage. This system has been in actual use since 1928. It has been thoroughly tried out in various types of buildings and under varying conditions. The Ambler Olsen System has the endorsement of many leading Architects and Contractors in many large cities.

SIMPLICITY: A simplified and efficient method of construction requiring no special experience for installation.

ECONOMICAL: Installations can be rapidly assembled at a saving of labor and material. Speed of erection reduces the time element thereby permitting occupancy sooner and oftentimes cutting the interest on investment costs.

MAINTENANCE: The cost of upkeep is negligible particularly if asbestos board is used.

ADAPTABILITY: The System is being specified in old buildings because it may be installed regardless of the layout and condition of the structure. Ambler Olsen System may be installed anywhere, in new or old buildings, regardless of the building structure.

DEBRIS NEGLIGIBLE: The Ambler Olsen System of construction is oftentimes applied over, and without removing, the old construction—be it cracked plaster, rusty metal or wood. Remodeling work may be

carried on without interruption to business—almost overnight. Panels and moldings may be cut (and decorated) prior to installation, thus reducing the application to speedy, litter-free assembly. The job, including decoration, is then completed when the last panel is slipped into place.

APPEARANCE: No nails or screws to mar the surface. Unlimited possibilities and color schemes for modern decoration. Interiors and exteriors should reflect modern efficiency of a business. For this reason the Ambler Olsen System is being, and has been installed in progressive offices, stores, restaurants, industrial buildings and similar places.

FIRE-PROOFING: When asbestos panels are used, an ideal system is provided for fire-resisting construction at a low cost.

SALVAGE VALUE: Easy installation, re-partitioning, and dismantling permit of maximum flexibility and efficient use of space. All materials—panels, moldings, hangers—may be completely salvaged and reused. This is a feature of vast importance, especially in temporary structures, such as expositions buildings, studios, construction camps, etc.

PATENTS: The Ambler Olsen System is patented.

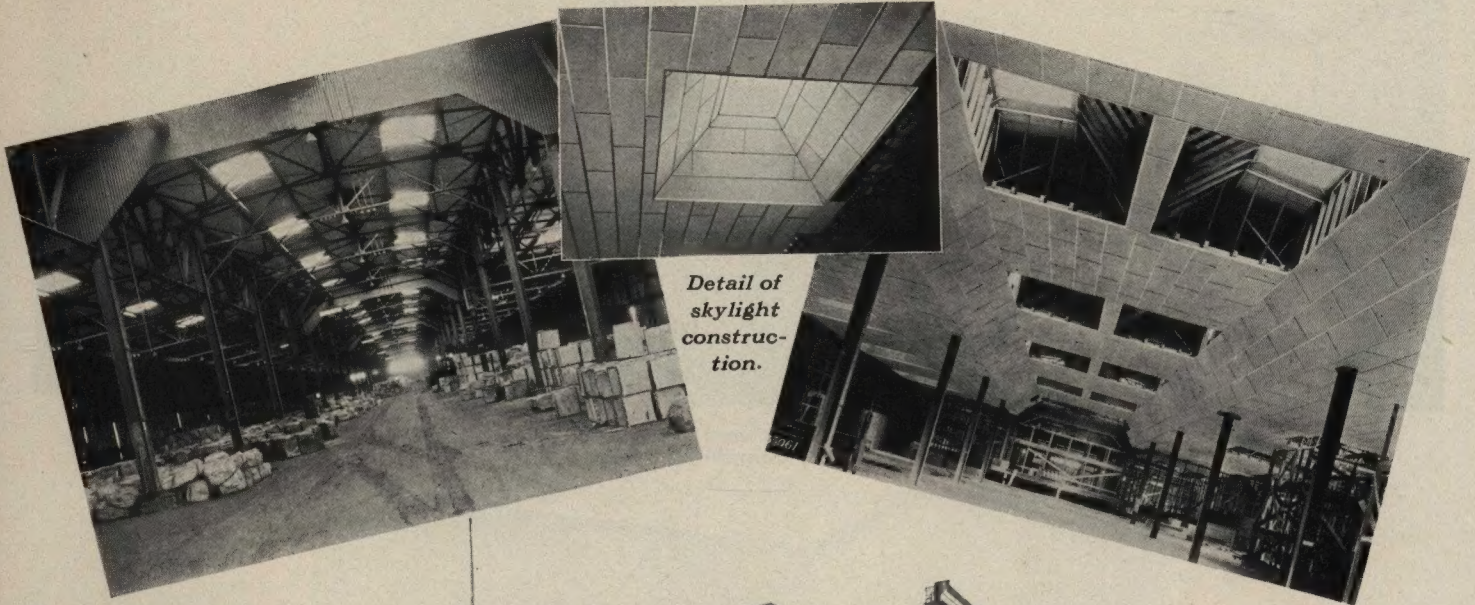
USES: In meeting halls, churches, schools and residences the Ambler Olsen System is both adaptable and suitable. While it might be termed an "ideal tool" for fire and sound retarding construction, it is a veritable "gold mine" to the decorator. With little effort and at small cost, the enterprising builder may transform an antiquated, dull and gloomy meeting room into a cheerful, inviting assembly hall, radiating modern beauty. Astounding decorative effects may be attained by variation of the geometrical design and thoroughly striking, harmonious color combinations, false beams, dome effects, etc. The molding members can be furnished (on special order) in various metals and colors.

KEASBEY & MATTISON COMPANY
AMBLER, PENNA.

Partial List of Installations

| | |
|--|---|
| Curtis-Caproni Airport, Dundalk, Md. | Ceilings and fire curtains. |
| Hispanic Bldg. Corp., New York City | Sound insul. ceiling (apartment). |
| W. M. Calder Co., Brooklyn, N. Y. | Residence ceilings. |
| S. S. Kresge Stores, New York City | Store ceilings. |
| R. H. Macy & Co., New York City | Store partitions. |
| Jamaica Bus Terminal, Jamaica, N. Y. | Waiting room ceiling. |
| Adelphi Sanitarium, Brooklyn, N. Y. | Hospital partition and walls. |
| U. S. Navy Yard, Brooklyn, N. Y. | Hospital ceiling. |
| Norwegian Club, Brooklyn, N. Y. | Ceiling in club. |
| Lerner Stores Corp., New York City | Partitions in offices. |
| Brookline School, Philadelphia, Pa. | Boiler room ceiling. |
| Archmere Academy, Chester, Pa. | Partition in school room. |
| Hotel Mahopac, Lake Mahopac, N. Y. | Ceilings in hotel. |
| New York Telep. Co., New York | Various installations. |
| Mount & Robertson, Inc., N. Y. C. | Factory partitions. |
| Tom Thumb Taverns, Inc., N. Y. C. | Restaurant ceilings and walls. |
| Hilo Varnish Co., Brooklyn, N. Y. | Office ceiling and wall. |
| Intertype Co., Brooklyn, N. Y. | Acoustical ceiling. |
| Wil-low Cafeterias, Inc., N. Y. C. | Ceilings. |
| Christ Hospital, Jersey City, N. J. | Lead coated ceiling in X-ray rm. |
| Mount Sinai Hosp., New York City | Partitions. |
| Frank Sheppard Co., N. Y. C. | Acoustical ceilings. |
| Union Dime Sav. Bank, N. Y. C. | Acoustical ceiling. |
| Kresge Dept. Store, Newark, N. J. | Store partitions. |
| Horn & Hardart Co., New York City | Restaurant acoustical ceiling. |
| McGraw-Hill Publishing Co., N. Y. C. | Partitions. |
| Jeddo-Highlands Coal Co., Harleigh, Pa. | Parts. in fabricated house. |
| Columbia Broadcast. Bldg., N. Y. C. | Partitions. |
| Century of Progress, Chicago, Ill. | Ceilings, sidewalls, exterior and interior con- |
| "WORLD'S FAIR" | structions in various exhibition bldgs., etc. |
| Vang Studio, Brooklyn, N. Y. | Studio ceiling. |
| Colgate-Palmolive-Peet Co., Jersey City, N. J. | Acoustical ceilings. |
| Public Library, 42nd St. & 5th Ave., New York City | Partition. |
| Saratoga Springs job, Saratoga Springs, N. Y. | Walls and partition. |
| E. R. Squibb & Sons, Brooklyn, N. Y. | Partitions. |
| Pennsylvania R. R. Station, Newark, N. J. | Acoustical ceilings. |
| 7th Day Adventists, 618 50th, Bklyn. | Main ceilings in church. |
| City of New York Recreation Pier No. 6, Staten Island, N. Y. | Ceilings, walls and partitions. |
| Frank Tracy, Inc., N. Y. C. | Ceilings in three stores. |
| Industrial Trust Building, Wilmington, Del. | Plastered partitions. |
| Job—65th & 6th Ave., Bklyn, N. Y. | Garage and serv. stat. ceiling. |
| Job—191 Chambers St., N. Y. C. | Dentist's office ceiling. |
| Socony Vacuum Oil Co., N. Y. C. | Partitions. |
| N. Y. Central—Bell Telep., N. Y. C. | Ceiling. |
| U. S. S. Tuscaloosa (Officer's Quart.) | Wall linings. |
| Scott Paper Co., Chester, Pa. | Partitions. |
| Sandura Co., Chester, Pa. | Housing for linoleum dryer. |
| Job—Denton Bldg., Mineola, N. Y. | Ceilings and partitions. |
| Empire State Building, New York City | Acoustical ceiling. |
| Sharp & Nassoit, Inc., 2489 Bway, N. Y. C. | Ceiling in store. |
| Ambler Headquarters | Partitions. |

Views of Installations of Ambler Olsen System



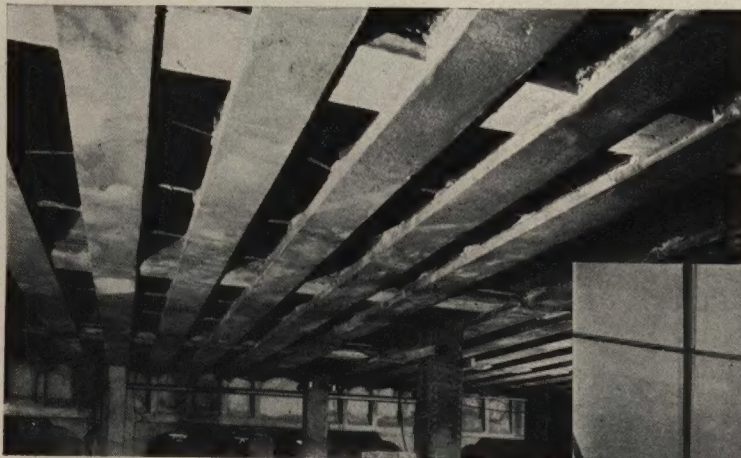
*Detail of
skylight
construc-
tion.*

*Pier interior before
Ambler Olsen System
installation.*

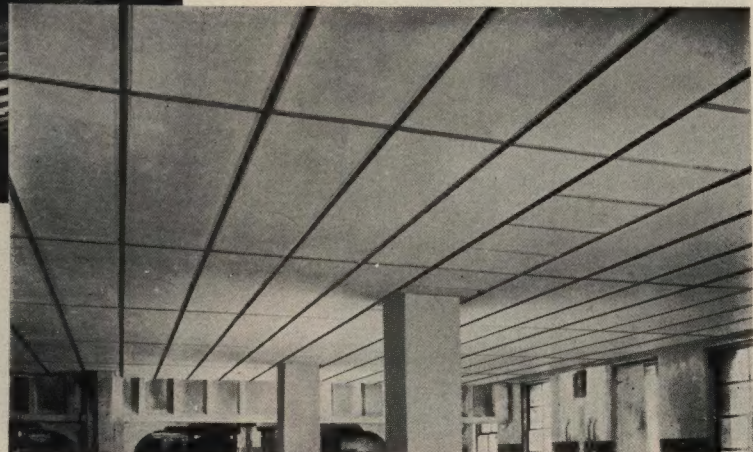
*Partial view of pier interior
showing Ambler Olsen Sys-
tem ceiling construction.*



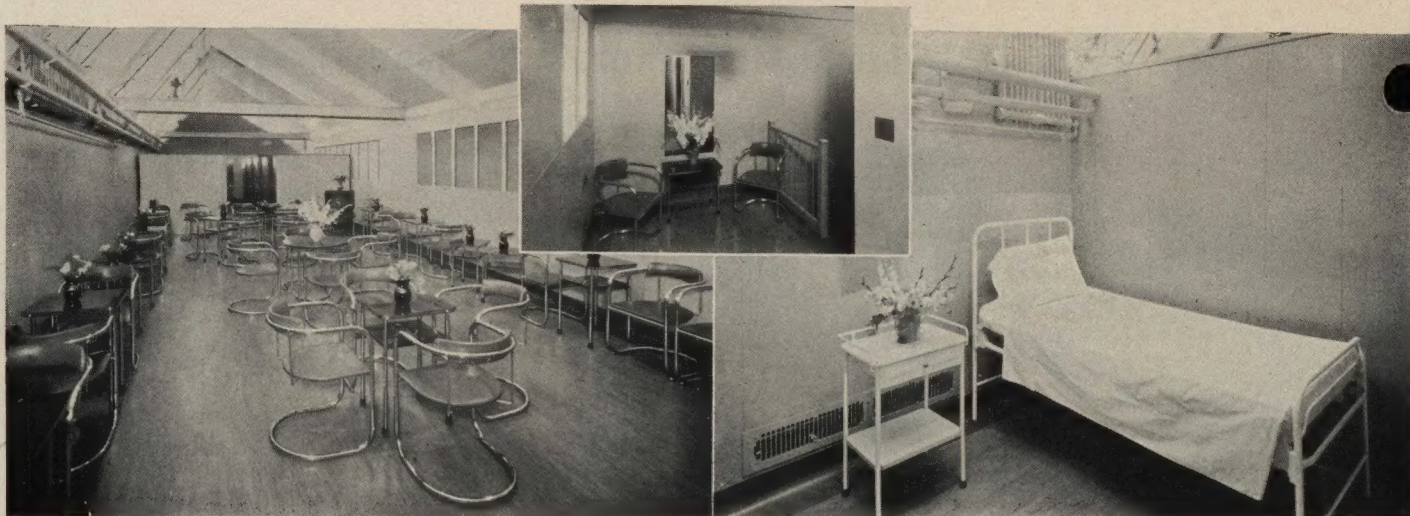
*City of New York Recreation
Pier No. 6, Staten Island, N. Y.*



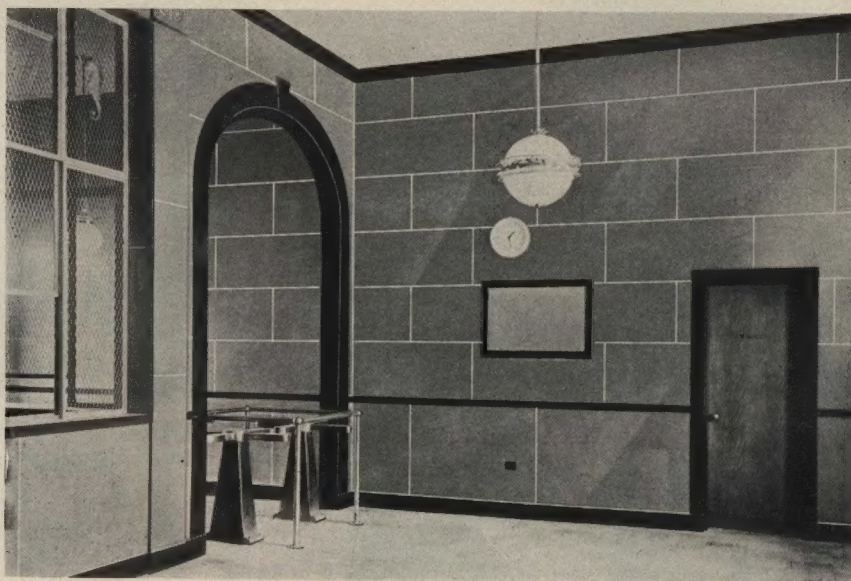
*Ceiling in a large N. Y. C. warehouse before
erection of the Ambler Olsen System.*



Ambler Olsen System finished ceiling.



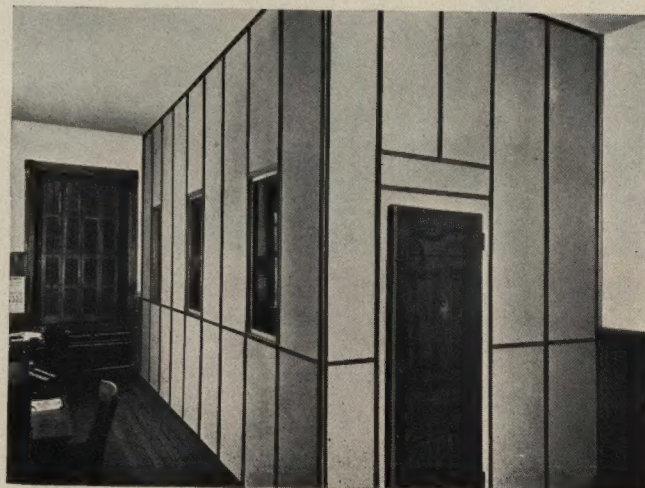
Views of Ambler Olsen System used in cafeteria, alcove and rest room in the Scott Paper Company's offices at Chester, Pa.



Ambler Olsen System installation in bath house, Athletic Group, Saratoga Springs, N. Y., under Saratoga Springs Authority of State of New York.

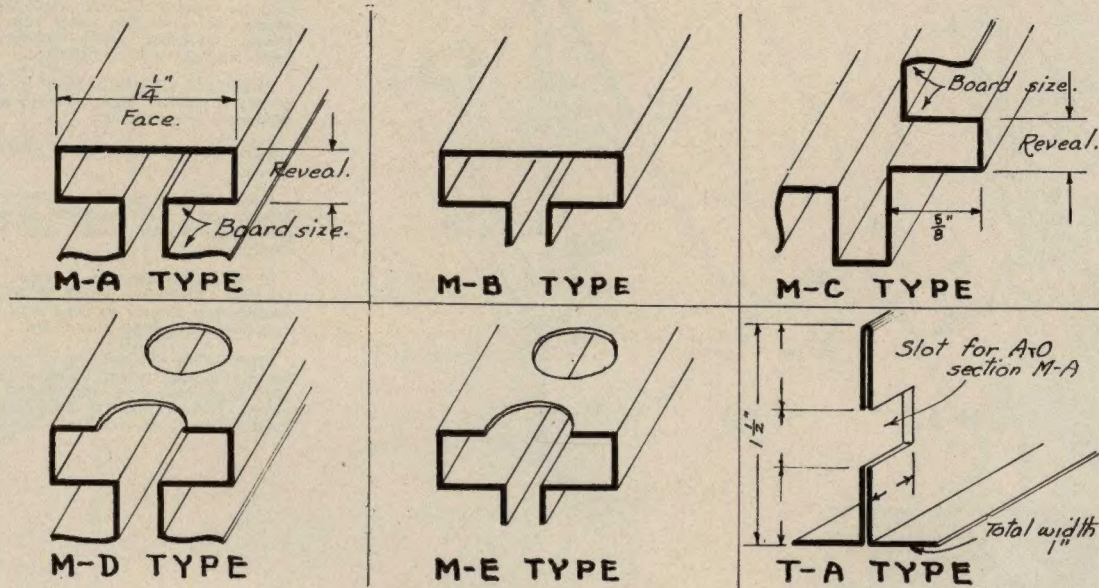


Ambler Olsen System shelving.



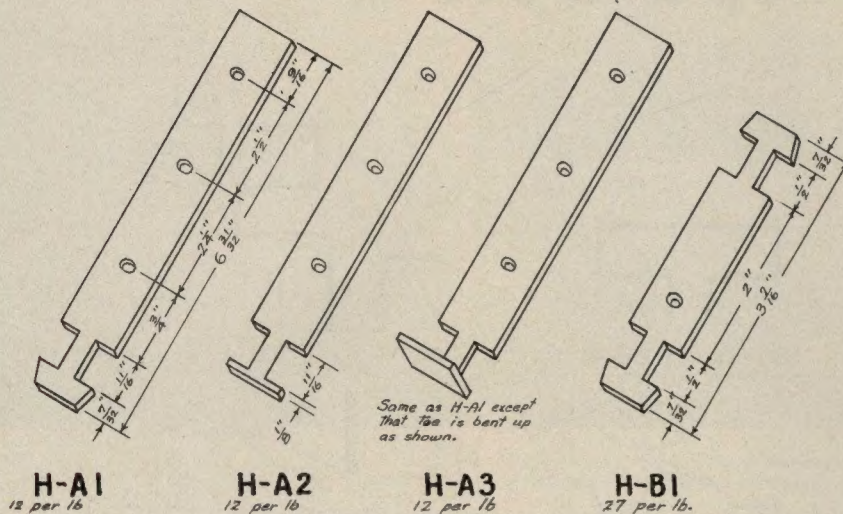
Ambler Olsen System partitioning.

Shape Data



| Type | Reveal | Board size | Weight per foot | Finish | Std. length |
|-------|----------------|--------------------------------|-----------------|------------|-------------------------------------|
| M-A | $\frac{3}{8}"$ | $\frac{3}{8}"$ | .35 | Galvanized | 12' |
| M-A1 | $\frac{1}{8}"$ | $\frac{3}{8}"$ | .3 | " | 12' |
| M-A3 | $\frac{1}{8}"$ | $\frac{1}{2}"$ | .35 | " | 12' |
| M-A4 | $\frac{1}{8}"$ | $\frac{1}{4}"$ | .3 | " | 12' |
| M-A5 | $\frac{1}{8}"$ | $\frac{3}{16}"$ | .3 | " | 12' |
| M-B1 | $\frac{3}{8}"$ | $\frac{3}{8}" - \frac{1}{2}"$ | .25 | " | 12' |
| M-B2 | $\frac{1}{8}"$ | $\frac{3}{8}" - \frac{1}{2}"$ | .2 | " | 12' |
| M-B3 | $\frac{1}{8}"$ | $\frac{1}{4}" - \frac{3}{16}"$ | .2 | " | 12' |
| M-C5 | $\frac{3}{8}"$ | $\frac{3}{8}"$ | .35 | " | 10' |
| M-C7 | $\frac{1}{8}"$ | $\frac{3}{8}"$ | .3 | " | 10' |
| M-C8 | $\frac{1}{8}"$ | $\frac{1}{2}"$ | .35 | " | 10' |
| M-C9 | $\frac{1}{8}"$ | $\frac{1}{4}"$ | .3 | " | 10' |
| M-C10 | $\frac{1}{8}"$ | $\frac{3}{16}"$ | .3 | " | 10' |
| M-D | $\frac{3}{8}"$ | $\frac{3}{8}"$ | .35 | " | 12' |
| M-D1 | $\frac{1}{8}"$ | $\frac{3}{8}"$ | .3 | " | 12' |
| M-D3 | $\frac{1}{8}"$ | $\frac{1}{2}"$ | .35 | " | 12' |
| M-D4 | $\frac{1}{8}"$ | $\frac{1}{4}"$ | .3 | " | 12' |
| M-D5 | $\frac{1}{8}"$ | $\frac{3}{16}"$ | .3 | " | 12' |
| M-E | $\frac{3}{8}"$ | $\frac{1}{2}" - \frac{3}{8}"$ | .25 | " | 12' |
| M-E1 | $\frac{1}{8}"$ | $\frac{1}{2}" - \frac{3}{8}"$ | .2 | " | 12' |
| M-E2 | $\frac{1}{8}"$ | $\frac{1}{4}" - \frac{3}{16}"$ | .2 | " | 12' |
| T-A | | | .3 | " | $23\frac{3}{4}"$ & $35\frac{3}{4}"$ |

Hangers



NOTE—A-O SECTIONS—M SERIES—
All sections are rolled. Standard material is No. 26 gauge galvanized steel. Sections are obtainable (but not stocked) in other metals that are capable of being rolled; time must be allowed for obtaining metal and for special rolling. Standard finish galvanized, other finish is special and not stocked.

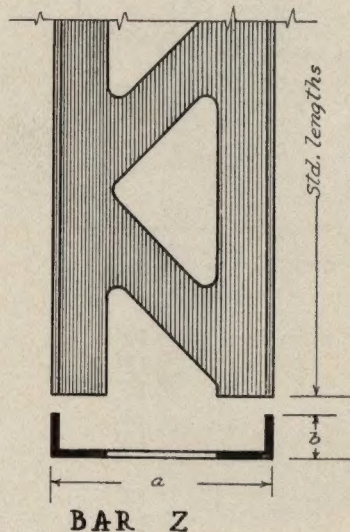
SPECIAL SHAPES—Bent to shape (not rolled) to special order. Gauge as specified. Maximum length 10'-0".

ROLLED SECTIONS—M SERIES—Stock length.

Special lengths may be cut from the above. Longer sections are available on special order (maximum length limited only by shipping facilities).

T SERIES—Bent to shape. Gauge as specified. Maximum length 10'-0". Generally furnished in shorter sections (and slotted) for insertion between M-A Sections.

HANGERS—Stock $\frac{1}{8}$ " x $\frac{3}{4}$ " steel. Standard finish cadmium plated; other finishes special. May be furnished in other metals (on special order). Hangers may be furnished in various lengths other than standard.



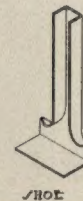
Bar Z

SPECIFICATIONS—

All sections are painted black.

Four shoes may be furnished with each stud—2 top and 2 bottom (for track connector).

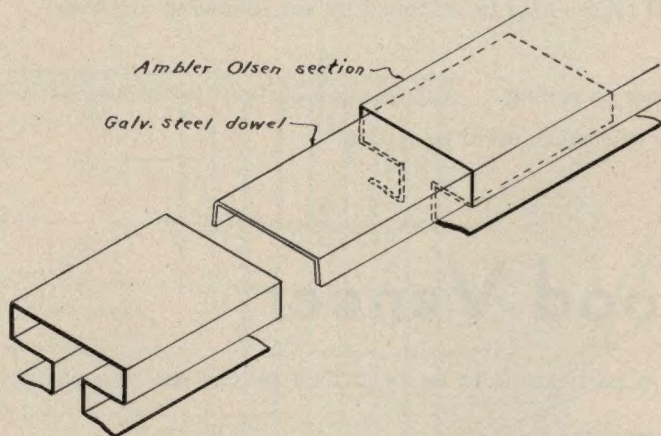
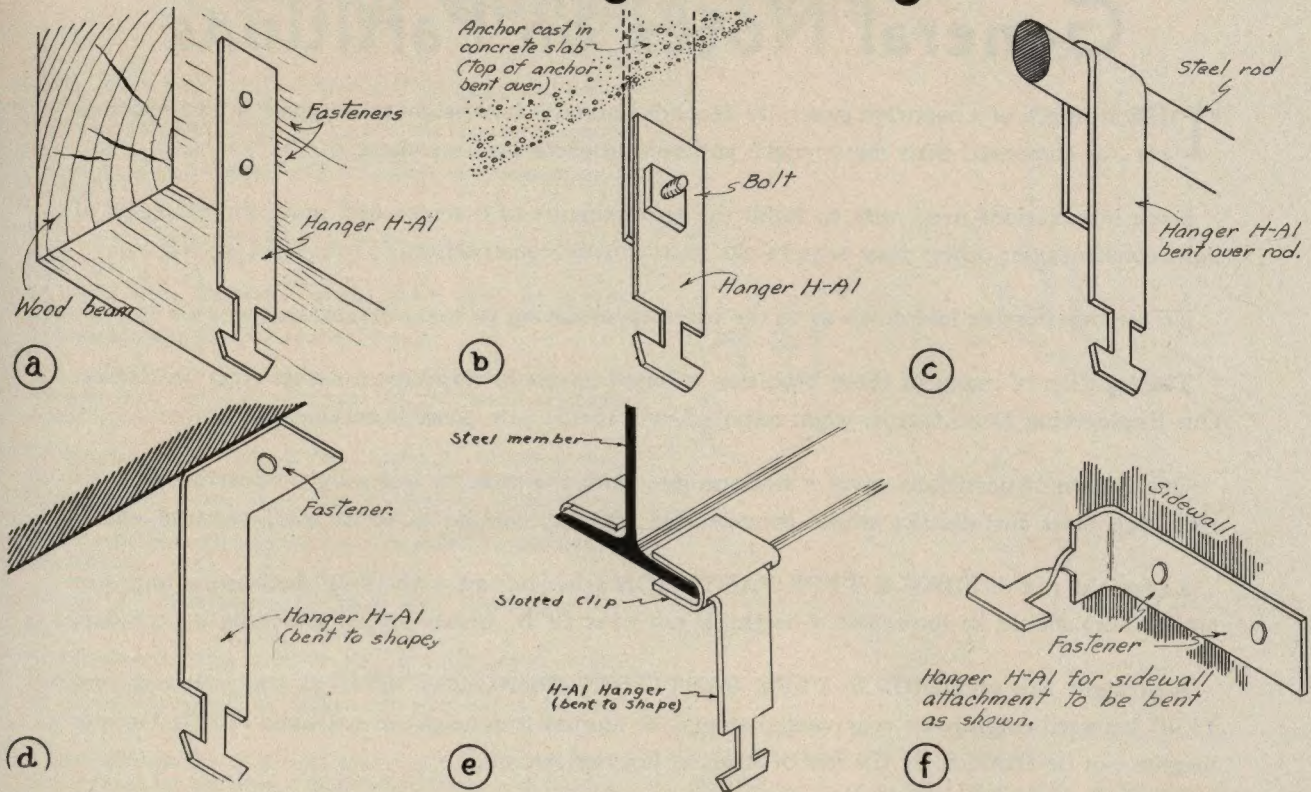
NOTE—Because of width of flange 2-bar Z-7 or 8 cannot be encased in AO sect. M-A.



| Type | Designation | Size | | Wt. lineal foot #s | Lengths available | | Remarks |
|------|----------------------------|------------------|------------------|--------------------|-------------------|--------------------------------------|--------------------------------------|
| | | a | b | | Warehouse | Mill | |
| Z-1 | 2" bar Z stud | 2" | $\frac{7}{16}$ " | .41 | 10'-12' | 8'-9'-10'-12'-13' 14'-16'-18'-20' | |
| Z-2 | 2" " " track | $2\frac{1}{8}$ " | $\frac{7}{16}$ " | .41 | 10' | 10' | |
| Z-3 | $3\frac{1}{4}$ " " " stud | $3\frac{1}{4}$ " | $\frac{1}{2}$ " | .5 | 10'-12' | 8' to 20' (as above) | |
| Z-4 | $3\frac{1}{4}$ " " " track | $3\frac{3}{8}$ " | $\frac{1}{2}$ " | .5 | 10' | 10' | |
| Z-5 | 4" " " stud | 4" | $\frac{1}{2}$ " | .66 | 20' | 8' to 20' (as above) | Warehouse will cut to stock lengths. |
| Z-6 | 4" " " track | $4\frac{1}{8}$ " | $\frac{1}{2}$ " | .66 | 10' | 10' | |
| Z-7 | 6" " " stud | $6\frac{1}{8}$ " | $\frac{3}{4}$ " | .85 | 20' | 8' to 20' (as above) | Warehouse will cut to stock lengths. |
| Z-8 | 6" " " track | $6\frac{1}{4}$ " | $\frac{3}{4}$ " | .85 | 16' | 16' | |

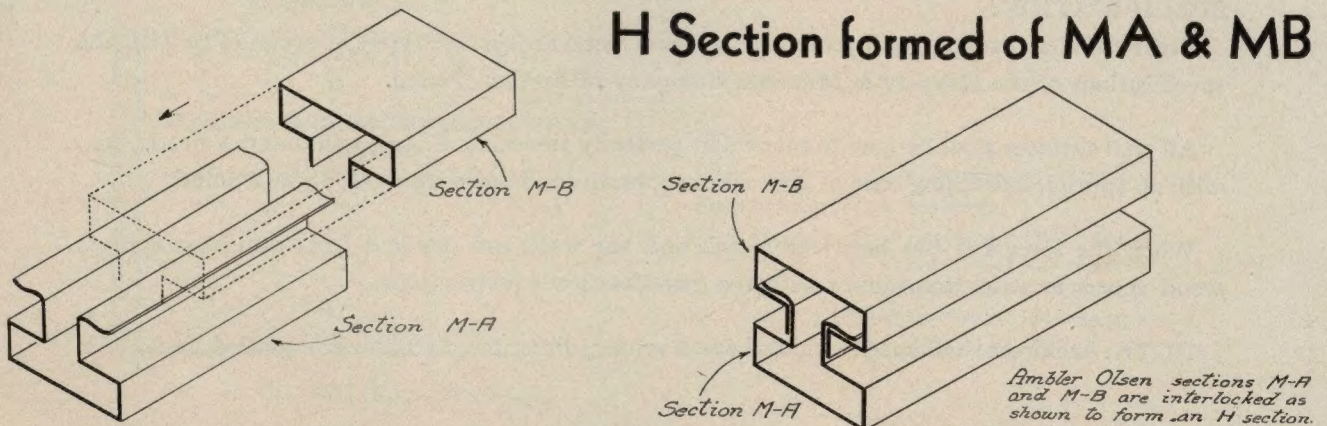
| Shoes | Use | Wt. per 1000 pcs. (pounds) |
|------------------|---|----------------------------|
| $2\frac{1}{2}$ " | for bottom of 2"— $3\frac{1}{4}$ "—4" studs | 45. |
| 5" | for top of 2"— $3\frac{1}{4}$ "—4" studs | 72.5 |
| $4\frac{1}{2}$ " | for bottom of 6" stud | 150. |
| 12" | for top of 6" stud | 356. |

Fastening of Hanger



Joining of Sections

H Section formed of MA & MB



General Notes on Partitions

THE strength of a partition generally depends upon its clear height, clear span or run, bracing, etc., as compared with the strength and section of its stud members.

Some installations need only to fulfill the requirements of a screen and may, therefore, be of light construction; others may require the most sturdy construction.

No set rule may be laid down as to the exact specification to cover all cases.

The solution of many of these problems is based on actual experience rather than on theory. Our Engineering Department, when required, will render any possible service.

Our system of partitions cover a wide range—from the more or less rough industrial job to a real high class installation where considerable thought can be given to Architectural effect.

A straight run of **SINGLE TYPE PARTITION** (the run not over 16'-0" between columns or cross walls) should be limited to a height of not over 10'-0" unless proper stiffening is provided.

A straight run of **DOUBLE TYPE PARTITION USING 3 1/4" STUDS** (the run not over 16'-0" between columns or cross walls) should be limited to a height of not over 14'-0". Greater heights can be attained by the use of studs of heavier section.

Partitions—particularly the dwarf type—may be stiffened by the following methods:

- (a) Cross walls.
- (b) Suitable stud running from floor to ceiling.
- (c) Diagonal brace rods from top of cornice mold to ceiling.
- (d) Heavy wide cornice members.

Wood Veneer

CONDITIONS may arise when a partition is to be beautified by the use of a wood veneer.

SPECIFICATION:

Erect Ambler Olsen System Asbestos Partition (smooth surface type) in accordance with the specifications of the Keasbey & Mattison Company of Ambler, Penna.

All wall surfaces shall be true to plane and perfectly smooth. Fill all joints, screw heads, etc., with an approved patching cement and, when set hard, sand down smoothly to wall plane.

When the foregoing has been completed and the walls are dry and free from frost apply a wood veneer in strict accordance with the manufacturer's instructions.

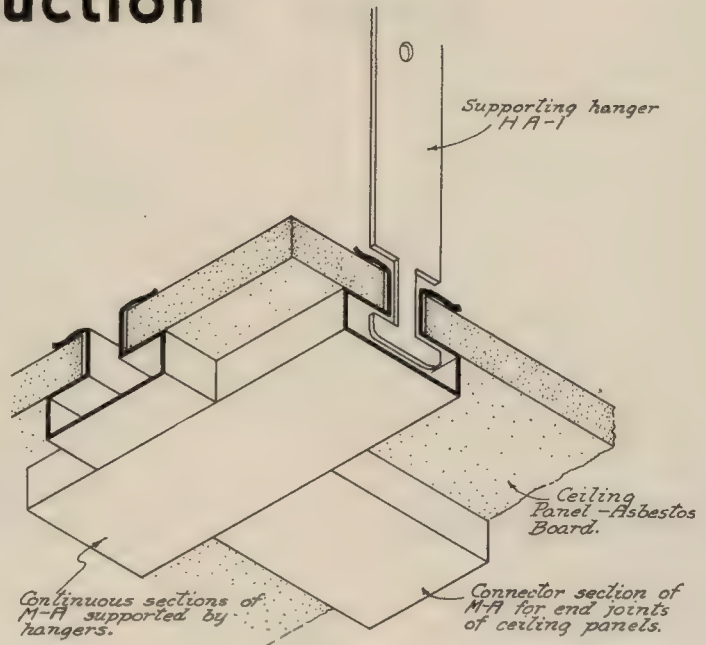
NOTE: Architect shall specify kind of wood veneer, direction of grain when applied, finish, etc.

Ceiling Construction

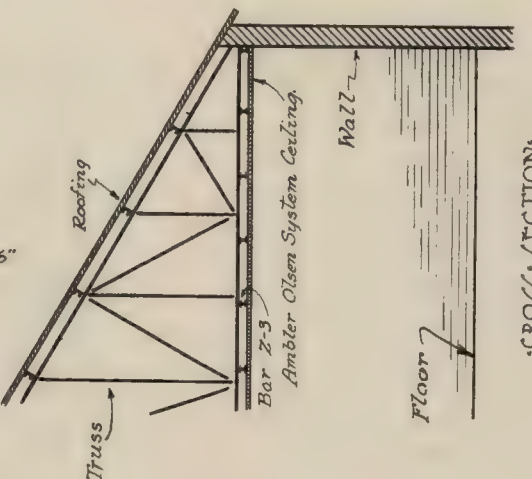
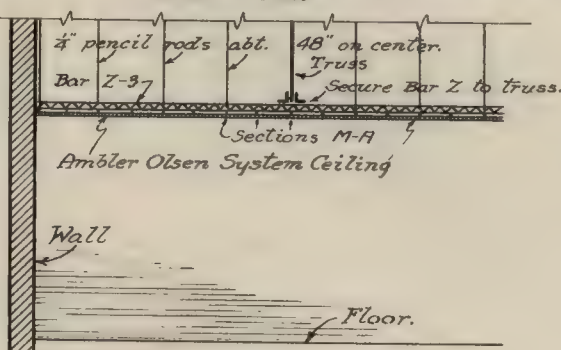
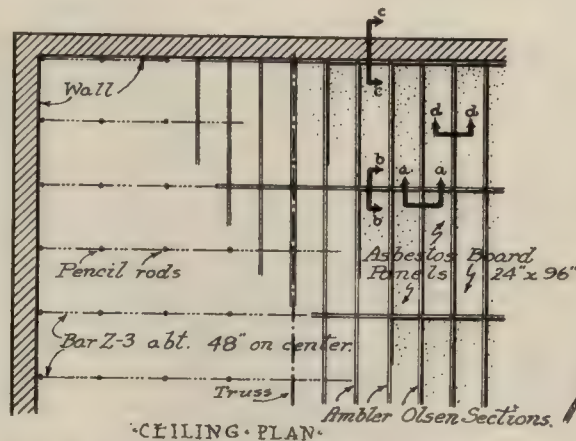
NOTE: The construction outlined is of the suspended ceiling type carried against the soffit of the bottom chord of the truss. The hangers are attached to "Z" bars in the example herewith. Hangers may be attached to other types of construction and then the principle of the Ambler Olsen System of construction is carried out.

SPECIFICATIONS

- (1) Over the areas designated on the plans, apply an Ambler Olsen System Asbestos Ceiling as furnished by the Keasbey & Mattison Company of Ambler, Penna.
- (2) The ceiling shall be erected in a workmanlike manner, in straight lines and true to plane. All fittings to adjoining construction shall be neatly made or scribed.
- (3) Starting at the wall and at right angles to the trusses erect bar Z-3 on 48" centers, same to be secured to the soffit of the bottom chord of the truss. Bar Z-3 is to be supported between the trusses on approximately 48" centers with $\frac{1}{4}$ " pencil rods, bent through bar Z-3 and carried up and secured to roof steel.
- (4) All bar Z-3 members are to have their lower faces true to plane.
- (5) Install Ambler Olsen Sections M-A at right angles to and placed snugly against face of bar Z-3. Secure sections M-A by means of hanger H-A1, locked into section M-A and bent over top of bar Z-3—hangers to occur at each bar Z-3.
- (6) Asbestos Panels $\frac{3}{8}$ " thick x 24" wide x 96" long (or 24" x 48") to be engaged in the slots of M-A progressively as the system is applied.



- (7) All the end joints of the asbestos panels to be made with a neatly fitted short section of M-A.
- (8) End joints of sections M-A to be of the butt type neatly fitted and doweled.

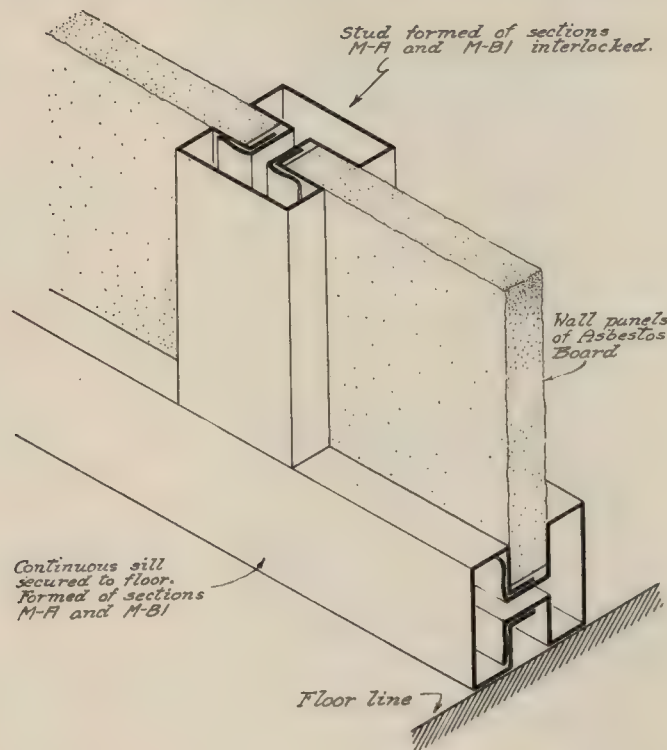


NOTE-

This construction is for suspended ceiling type:
For detail sections see dwgs.

- Section A—A see detail 953—page 26
 B—B see detail 953—page 26
 C—C see detail 954—page 26
 D—D see detail 954—page 26

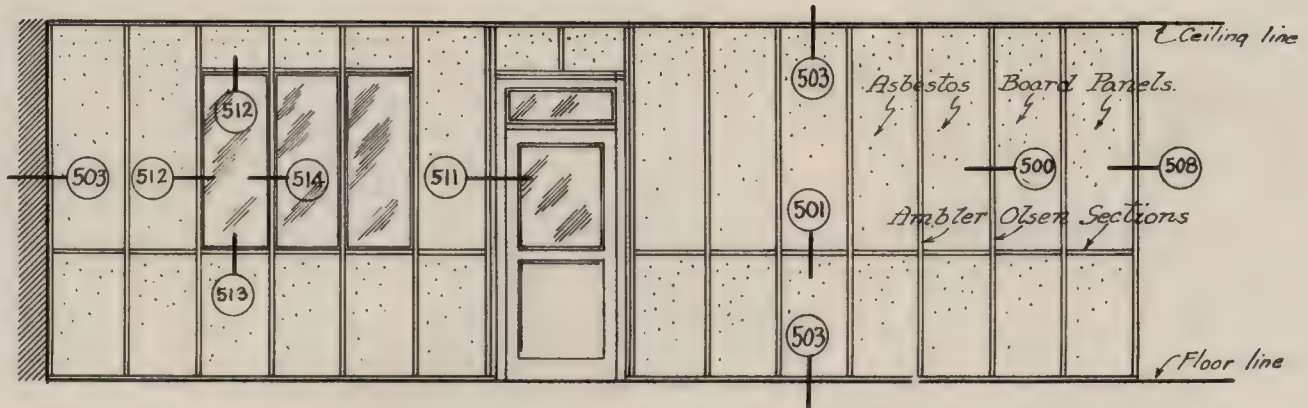
Single Partition Construction



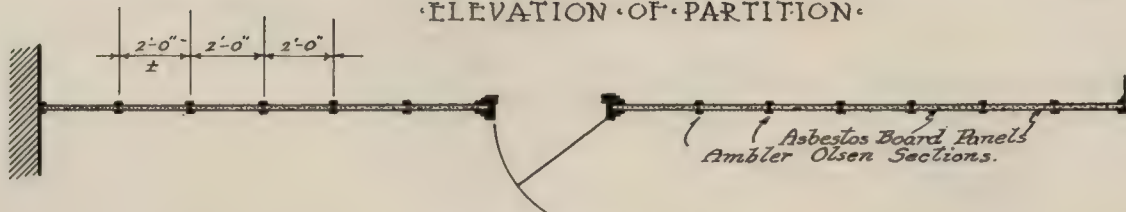
SPECIFICATIONS

- (1) On the areas designated on the plans erect an AMBLER-OLSEN SYSTEM PARTITION, Asbestos Single Type, as furnished by the KEASBEY & MATTISON COMPANY of Ambler, Penna.
- (2) The partition shall be laid out in accordance with the elevation shown on the plans and shall extend from floor to ceiling.
- (3) The partition shall be erected in a workmanlike manner, in straight lines, plumb and true to plane. All fittings to adjoining construction shall be neatly made or scribed.
- (4) At the floor and along the center line of the partition apply base "H" section formed of interlocked sections of M-A and M-B1. This section shall be secured to the floor on not over 36" centers, with a suitable fastener (nails, screws, expansion bolts, etc., according to the nature of the existing construction).
- (5) At the ceiling and directly over the base, apply a similar type "H" section to the ceiling construction, secured in place as before.
- (6) Starting at the wall apply a similar "H" section neatly fitted between the base and ceiling sections—the wall or stud section shall be secured to the sidewall in the manner hereinbefore specified.
- (7) Prepare "H" sections studs in one piece, cut to required length. Studs shall occur on approximately 24" centers.
- (8) Asbestos Panels $\frac{3}{8}$ " thick x 24" wide x required height (maximum 96" high) to be engaged in the slots of the "H" sections progressively with the "H" studs as the wall is applied.
- (9) All cross joints of the asbestos board to be made with neatly fitted short "H" sections.
- (10) Along the horizontal section on both sides apply a stiffener section (if required) of 1" cold rolled steel channel continuously and securely screwed to "H" section on approximately 24" centers (at studs) with Parker-Kalon Sheet Metal Screws.
- (11) **SASH:** All sash to be of the fixed type. Frame to be formed of Ambler-Olsen Section M-B1 carried around all four sides of the sash opening, with all corners neatly fitted and interlocked. These sections shall be secured to the "H" sections with round head Parker-Kalon Sheet Metal Screws, spaced on alternate sides not over 24" centers. The glass is to be set in a soft felt of proper thickness as detailed.
- (12) **GLASS:** All glass shall be at least first quality, clear, double thick.
- (13) **DOORS:** Doors and door bucks shall be of wood (or steel) as detailed.
- (14) **PAINTING:** All asbestos board, exposed steel, etc., shall be painted as directed and in full accordance with the paint manufacturer's directions.

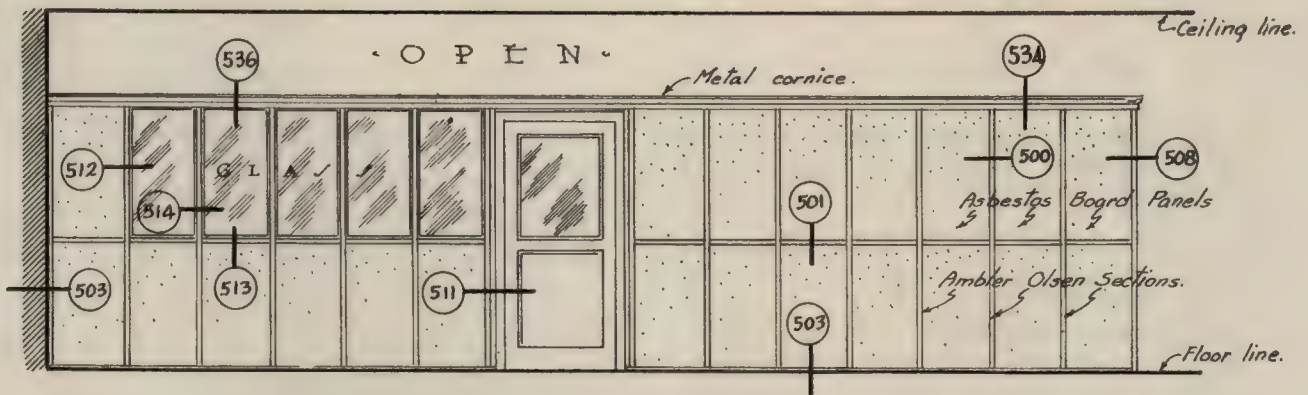
Single Partition Construction



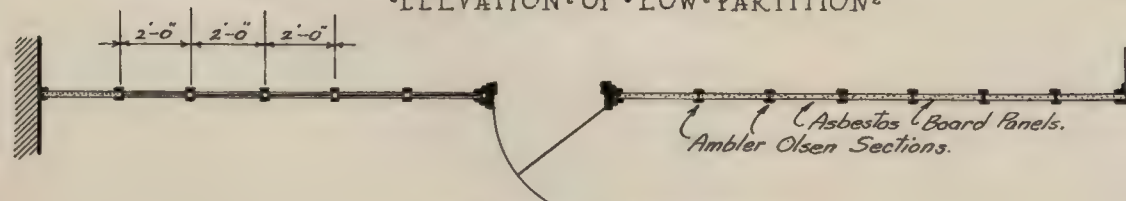
ELEVATION OF PARTITION



PLAN OF PARTITION

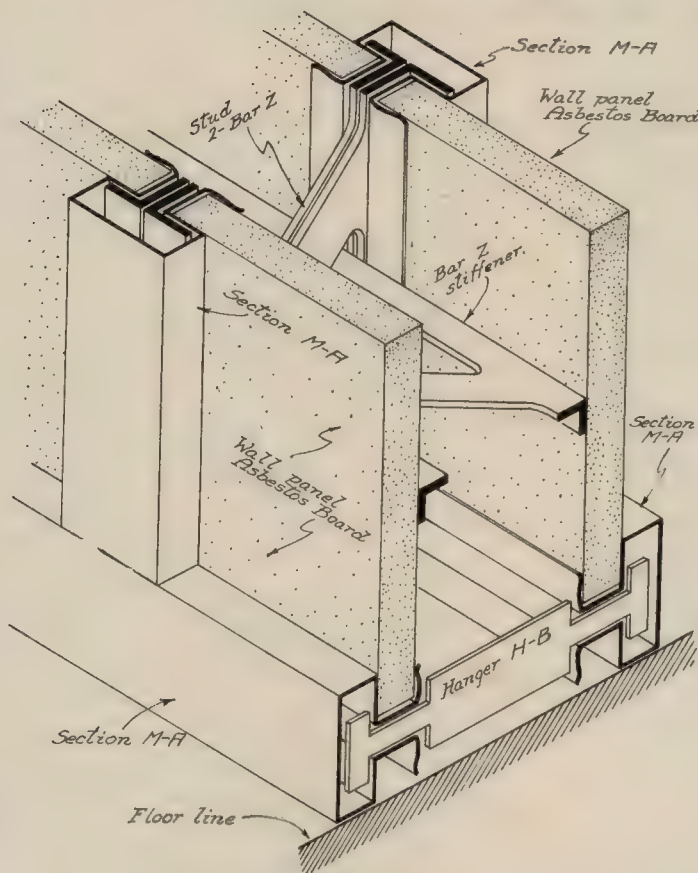


ELEVATION OF LOW PARTITION



PLAN OF PARTITION

Double Partition Construction

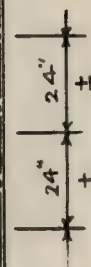
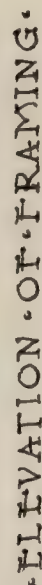
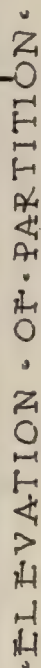


SPECIFICATIONS

- (1) About the areas designated on the plans erect an AMBLER-OLSEN SYSTEM PARTITION (Asbestos Double Type) as furnished by the KEASBEY & MATTISON COMPANY of Ambler, Penna.
- (2) The partition shall be laid out in accordance with the elevation shown on the plans and shall extend from floor to the ceiling.
- (3) All partitions shall be erected in a workmanlike manner, in straight lines, plumb and true to plane. All fittings to adjoining construction shall be neatly made or scribed.
- (4) Provide and install track at both the floor and the ceiling. Track to be formed of two sections M-A locked together as shown with hangers H-B of the proper length, interlocked as shown.
- (5) Track to be secured to the floor and ceiling on approximately 36" centers with fasteners of the required type (nails, screws, expansion bolts, etc., according to the nature of the existing construction). This track shall be installed along the center line of all partitions.
- (6) All studs shall be of the required length to

neatly fit between the floor and ceiling track. All studs shall be formed of two sections of bar Z-3 ($3\frac{1}{4}$ ") back to back, forming an "I"—the legs to be encased in Ambler-Olsen Section M-A.

- (7) The first stud shall occur at the wall and succeeding studs on approximately 24" centers.
- (8) Panels shall be of $\frac{3}{8}$ " thick Asbestos Board 24" wide x required height (maximum 96").
- (9) Starting at the wall apply a stud neatly fitted between the base and the ceiling sections—stud to be secured to the wall. Asbestos Panels to be engaged in the slots of the Ambler-Olsen Sections progressively with the studs as the system is applied.
- (10) All cross joints of the Asbestos Board Panels to be made with neatly fitted short sections of M-A.
- (11) Stiffener or bridging sections to be bar Z-2 ($2\frac{1}{8}$ ") and shall run continuously through bar Z-3 in the stud section. Bar Z-2 shall run horizontally on approximately 48" centers. The first line shall be at chair rail height from the floor.
- (12) **SASH:** All sash shall be of the fixed type. Sash to be built up as shown on the details. The sills shall be composed of $\frac{3}{8}$ " thick Asbestos Board cut to the proper width to project beyond the M-A sections approximately $\frac{1}{4}$ " on each side. Sills shall be installed in short pieces notched between the Z-3 studding. All exposed edges shall be neatly rounded and applied to a true level line. The Asbestos Board sills shall be screwed to the M-A sections with $\frac{3}{4}$ " flat head Parker-Kalon sheet metal screws, countersunk.
- (13) The muntins shall be composed of $\frac{3}{8}$ " thick Asbestos Board and M-A sections screwed together and boxed around the Z-3 studding as shown in the details.
- (14) The head shall be composed of $\frac{3}{8}$ " thick Asbestos Board sheets in short sections notched between the Z-3 studding and carried on the built-up muntins, no fasteners being necessary. The exposed edges shall be neatly rounded.
- (15) Glass frame shall be composed of Ambler-Olsen Section M-B1 carried around all four sides of the opening, with all corners neatly fitted and interlocked. These sections shall be secured (at the jams only) with round head Parker-Kalon sheet metal screws, spaced on alternate sides about 24" centers. The glass shall be set in a soft felt of proper thickness as detailed.
- (16) **GLASS:** All glass shall be at least first quality, clear, double thick.
- (17) **DOORS:** All doors and door bucks shall be of steel (or wood) construction erected as detailed.
- (18) **PAINTING:** All asbestos board, exposed steel, etc., shall be painted as directed and in full accordance with the paint manufacturer's directions.



Smooth Surface Double Partition Construction

NOTE: This set of details is laid out to a specific ceiling height, etc., so as to present a concrete example of construction. In order to conform to other ceiling heights, etc., all dimensions may be varied (except as noted below) to suit the local conditions.

EXCEPTIONS: Stud centers 2'-0"

Horizontal M-A sections on 12" centers maximum to a height of 4'-0" from the floor. Above this line the spacing may be increased to 18" maximum.

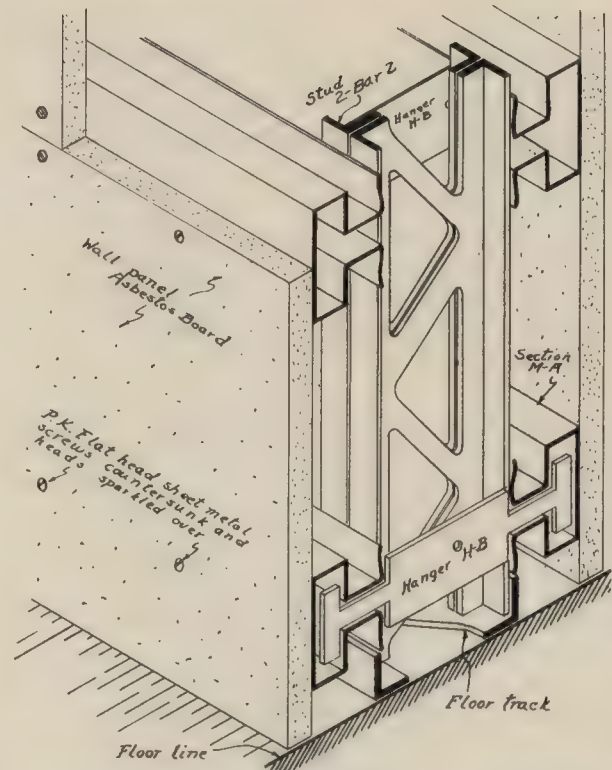
Sash heights may be raised or lowered—the widths cannot exceed those shown. (Sash may be eliminated entirely.)

Doors may be of dimensions other than those shown—steel doors and door bucks may be used in lieu of the wood doors as shown.

Studs Z-3 (3 1/4" deep) single, are suitable for ceiling heights up to 10'-0", and double up to 14'-0" (for greater heights a deeper stud shall be used).

SPECIFICATIONS

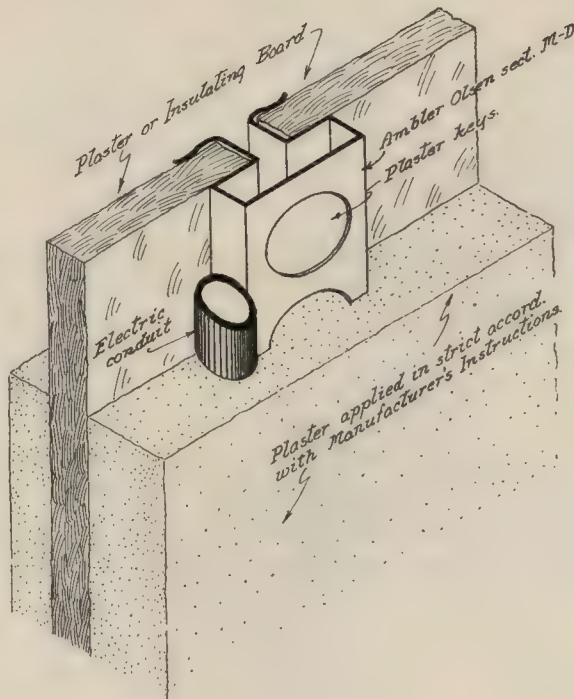
- (1) About the areas designated on the plans erect an AMBLER-OLSEN SYSTEM PARTITION, Smooth Surface Double Type, as furnished by the Keasbey & Mattison Company of Ambler, Penna.
- (2) The partition shall be laid out in accordance with the elevation shown on the plans and shall extend from the floor to the ceiling.
- (3) All partitions shall be erected in a workmanlike manner, in straight lines and plumb. All fittings to adjoining construction shall be neatly made or scribed.
- (4) Provide and install bar Z-3 track at the floor and ceiling. Track shall be securely held in place by fasteners as may be required (nails, screws, expansion bolts, etc., according to the nature of the existing construction). This track shall be installed along the center line of all partitions.
- (5) Install bar Z-3 studs located as shown and securing same to the floor and ceiling track by means of connectors furnished for the purpose.
- (6) Install Ambler-Olsen System sections M-A horizontally to the spacings shown. All end joints are butted and held together (as required) by means of metal dowels. Sections M-A are applied directly to the bar Z-3 studs and fastened together with interlocking Ambler Olsen Hangers H-B of the proper length, engaging opposite sections M-A. Hangers H-B to be spaced approximately 24" on center.
- (7) Asbestos sheets, 1/4" thick, shall be applied directly to the sections M-A on each side of the partition.
- (8) Asbestos sheets shall be held in place by means of flat head Parker-Kalon sheet metal screws, 3/4" long and spaced as shown. Necessary holes for the screws shall be drilled in the asbestos sheets and always punched in the M-A sections. All screw heads shall be countersunk and then filled with a suitable patching cement, neatly applied and then sanded off when set hard.
- (9) All joints in the Asbestos sheets shall be of the butt type and with the edges slightly sand rounded.
- (10) All jointings in the Asbestos sheets shall be arranged in an architectural manner.
- (11) Floor finish—At the junction of the asbestos sheeting and the floor a wood quarter round mold may be installed (as an alternate, either an Asbestos or a wood base-board may be used).
- (12) Ceiling finish—Run the Asbestos sheets to the ceiling line. Install a wood molding (to the size and contour desired) continuously and to a level line near the ceiling as shown. The molding shall be secured to the Asbestos sheets by means of wood screws.
- (13) Sash—Sills are to be built up as shown in the details. The Asbestos sheets shall be finished off at the correct height with exposed Ambler Olsen Sections M-A, the exposed ends of same shall be neatly closed with snugly fitting flush plugs of Asbestos board. The sills shall be composed of 3/8" thick Asbestos board cut to the proper width to project beyond the M-A sections approximately 1/4" on each side. Sills shall be installed in short pieces notched between the Z-3 studding. All exposed edges shall be neatly rounded and applied to a true level line. The Asbestos sills shall be



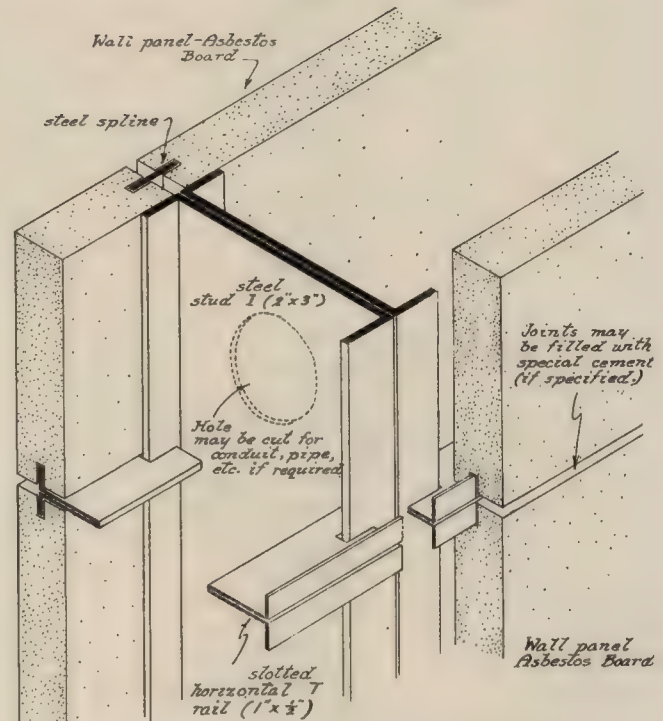
screwed to the M-A sections with 3/4" Flat Head Parker-Kalon Sheet Metal Screws countersunk.

- (14) The Muntins shall be composed of 3/8" thick Asbestos board and M-A sections screwed together and boxed around the Z-3 studding as shown in the details.
- (15) The head shall be composed of 3/8" thick Asbestos sheets in short pieces notched between the Z-3 studs and carried on the built-up Muntins, no fasteners being necessary. The exposed edges shall be neatly rounded.
- (16) Glass Frame shall be composed of Ambler Olsen Sections M-B1 carried around all four sides of the sash opening, with all corners neatly fitted and interlocked. These sections shall be secured (at the jams only) with Round Head Parker-Kalon Sheet Metal screws, spaced on alternate sides about 24" on centers. The glass shall be set in a soft felt of proper thickness as detailed.
- (17) Glass—All glass shall be at least first quality clear double thick.
- (18) Door Bucks shall be formed of wood as shown (for wood doors) to permit the attachment of hardware and trim. Header to be provided in similar manner.
- (19) Door Trim shall be built up of 3/8" thick Asbestos board as detailed. Door stops to be of the same material. All members shall be fastened to wood bucks by means of flat-head wood screws countersunk.
- (20) Doors shall be 3'-0" x 6'-8" x 1 3/4" pine; top half glazed.
- (21) Transom frame shall be 1" x 2" pine and glazed, bottom hung to swing in and equipped with catch and chain.
- (22) Hardware—Provide 3 butts per door; 1 lock (knob two sides) and key together with necessary strike plates, etc. Provide two butts, catch and chain for transom. All hardware to be first quality brass finish. Provide door bumpers in base-board area as may be required.
- (23) Corners shall be formed with Asbestos sheets, etc., as shown.
- (24) Painting—All Asbestos, woodwork, exposed steel, etc., shall be painted as directed and in full accordance with the Paint Manufacturer's directions.
- (25) Placing of screws—All screws shall be evenly spaced and symmetrically located.

Single Plaster Construction

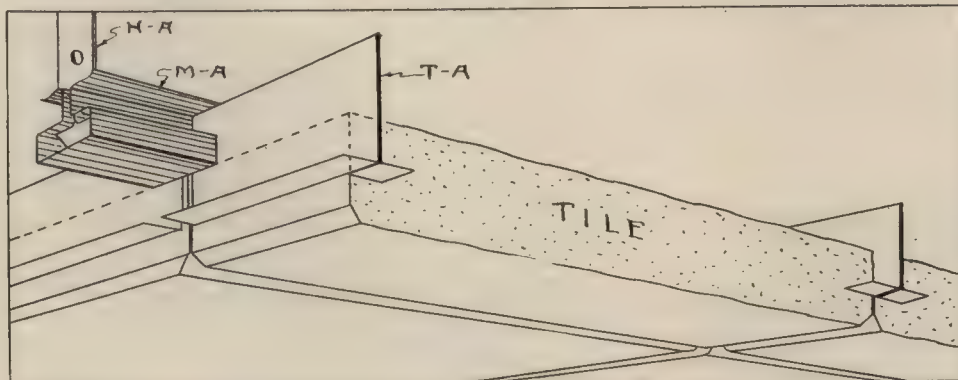


Smooth Surface Interlocking Partition

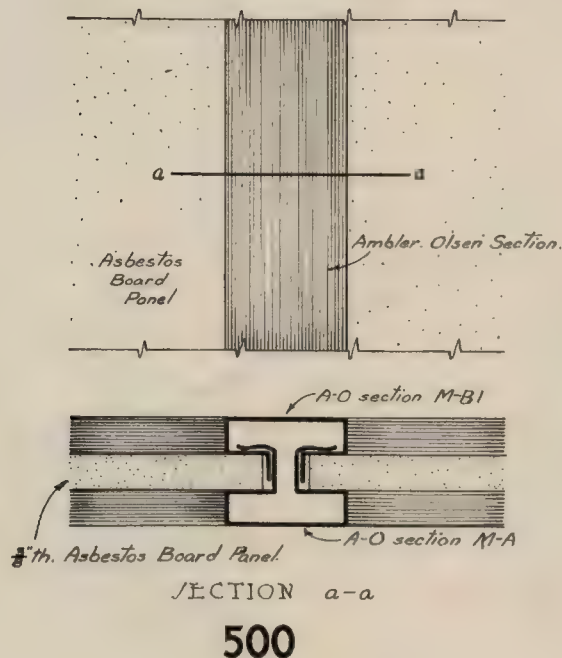


NOTE —
Asbestos sheets are slotted ($\frac{1}{4} \times \frac{1}{4}$) as shown, to receive splines and T rails.

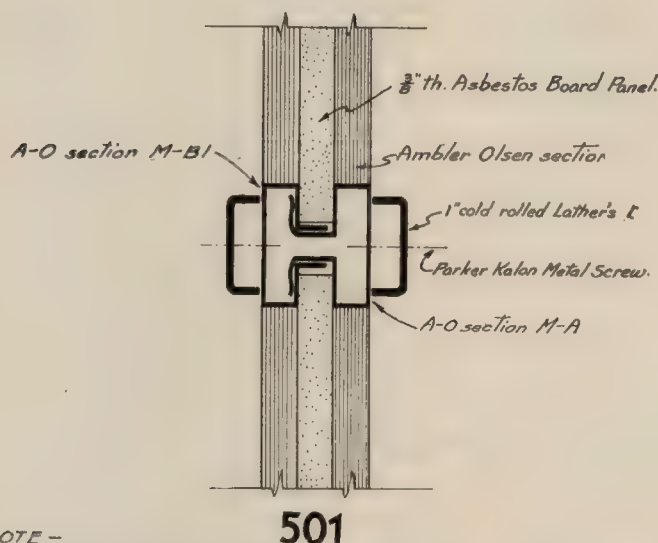
Acoustical Ceiling Construction



Details

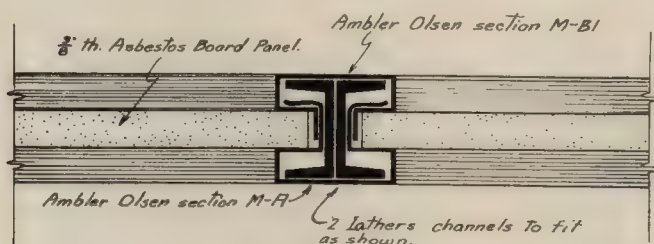


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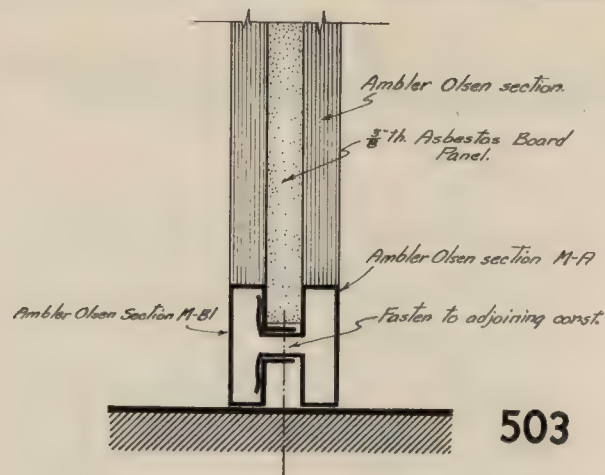
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NOTE -
1" cold rolled lather's channel continuous and secured to A-O sections on not over 24" centers with Parker-Kalon sheet metal screws (channel acting as horizontal reinforcement.)

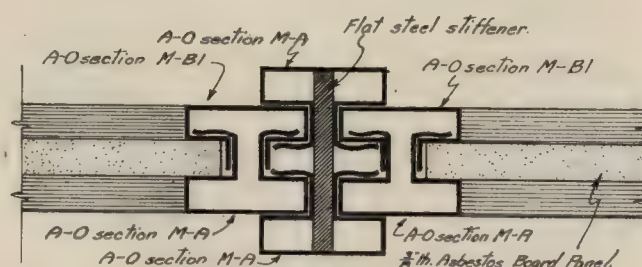


VERTICAL STUD REINFORCEMENT

502

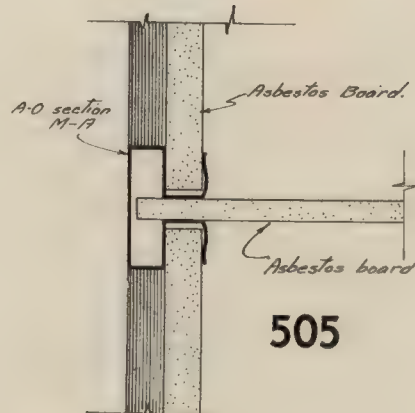


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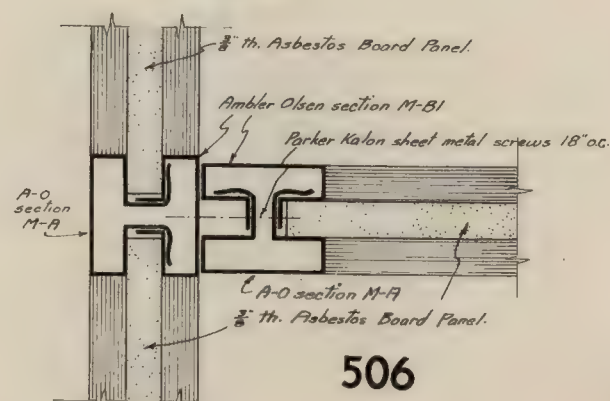


VERTICAL REINFORCING STUD

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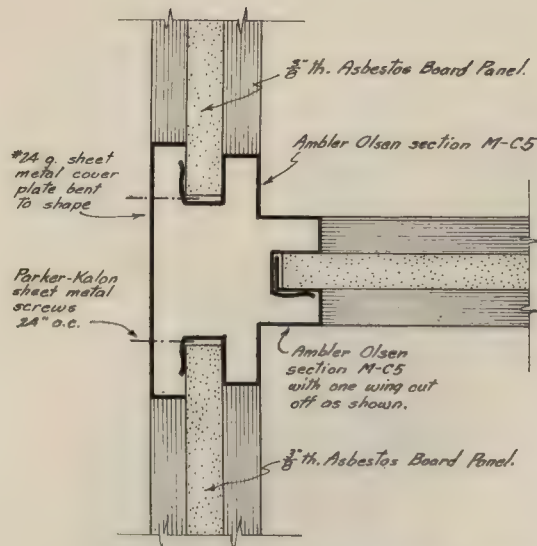
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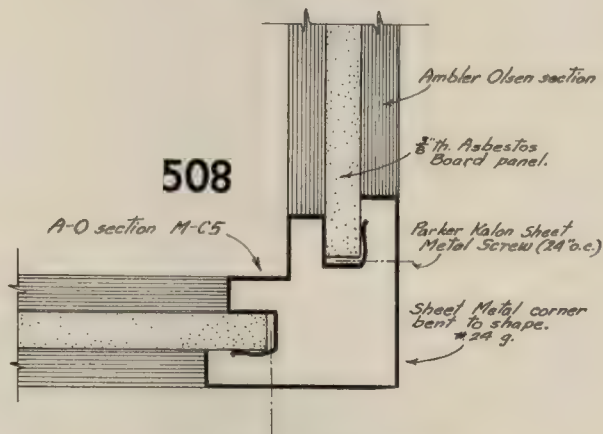
CROSS WALL CONNECTION

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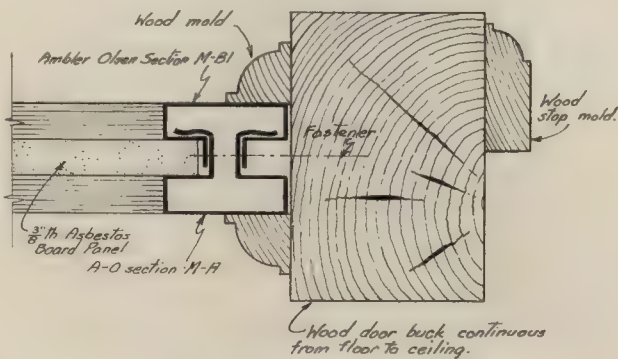


CROSSL WALL CONNECTION

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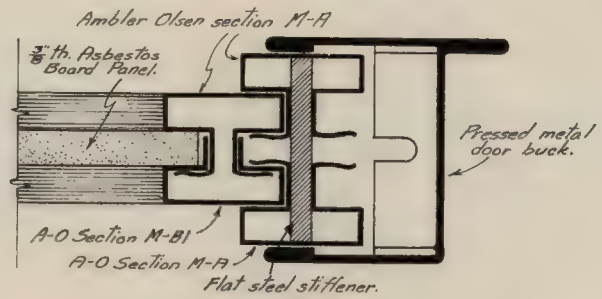


DETAIL OF CORNER

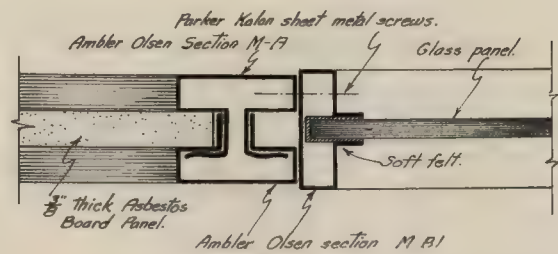


DETAIL OF WOOD DOOR BUCK

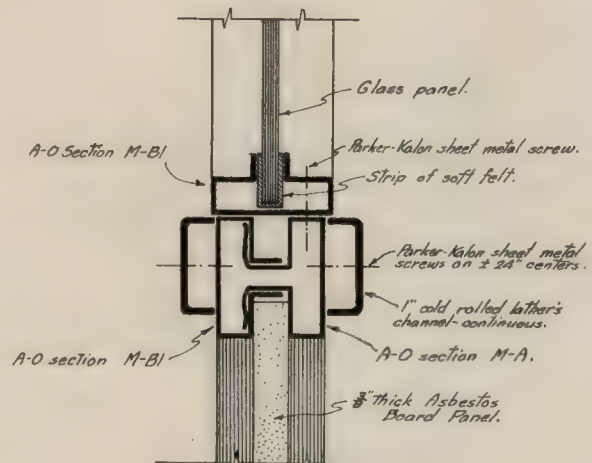
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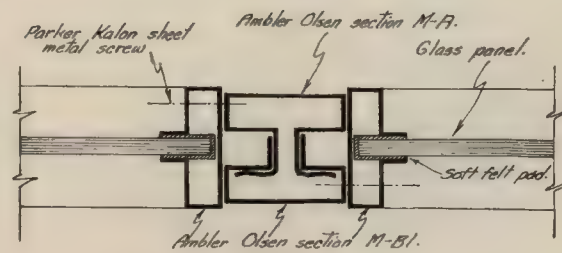
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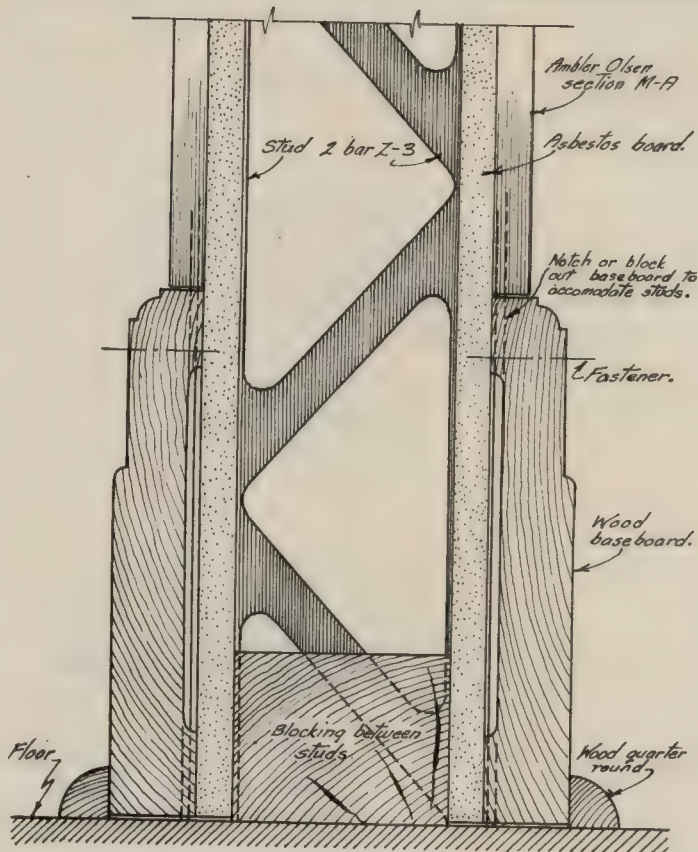


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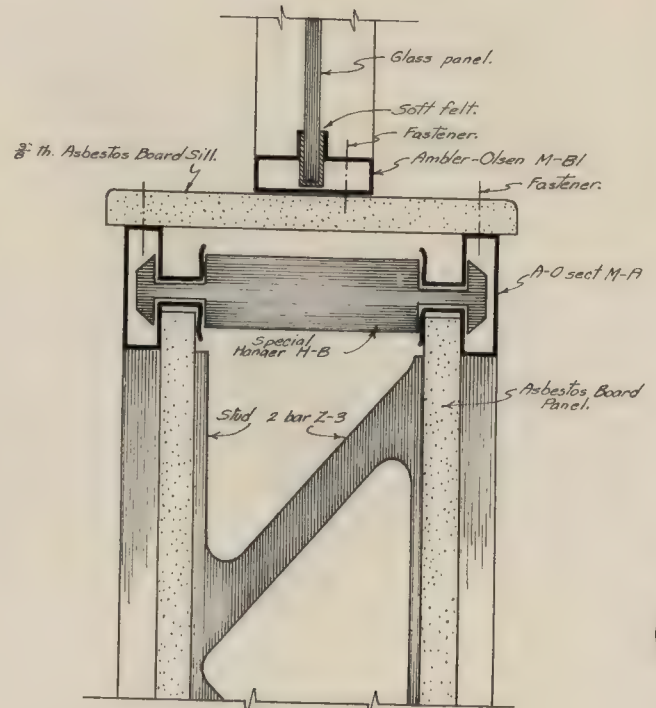


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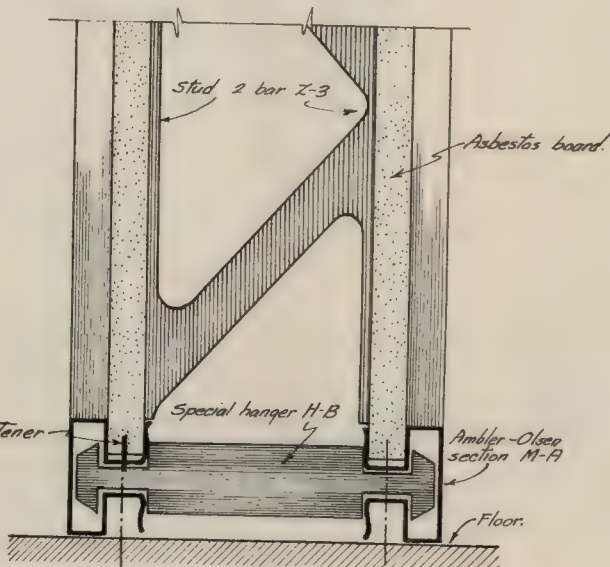
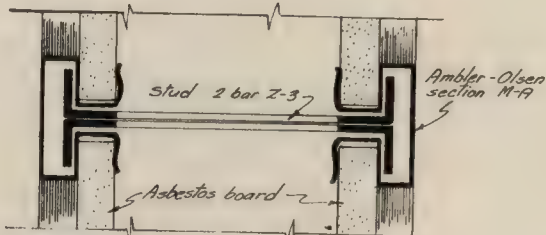
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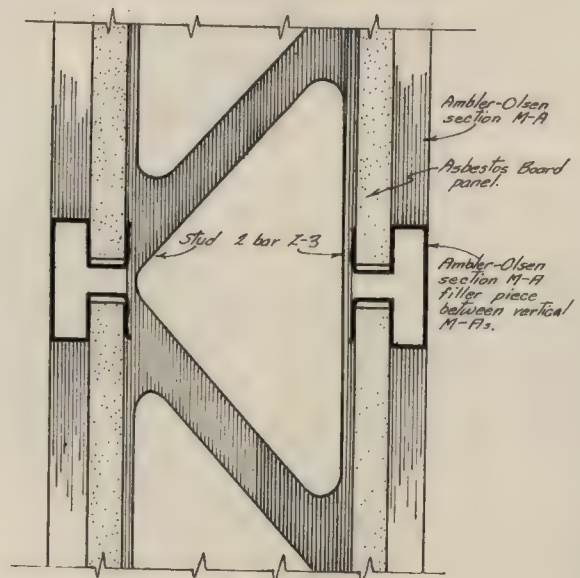
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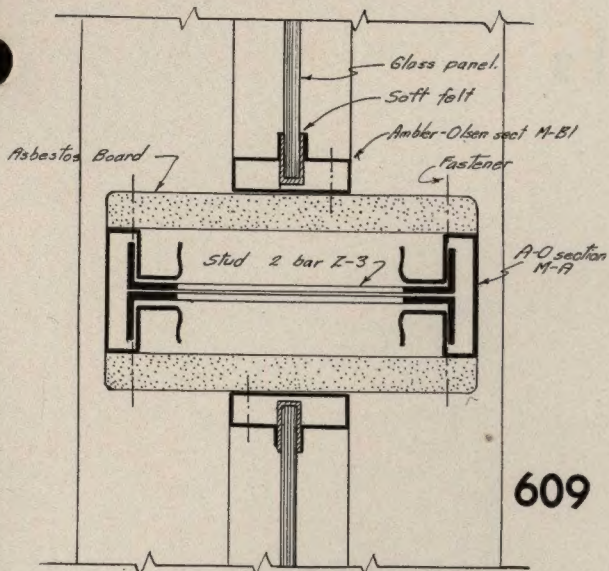


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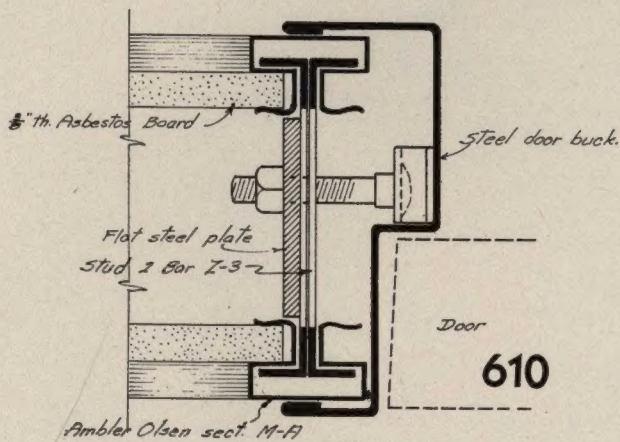


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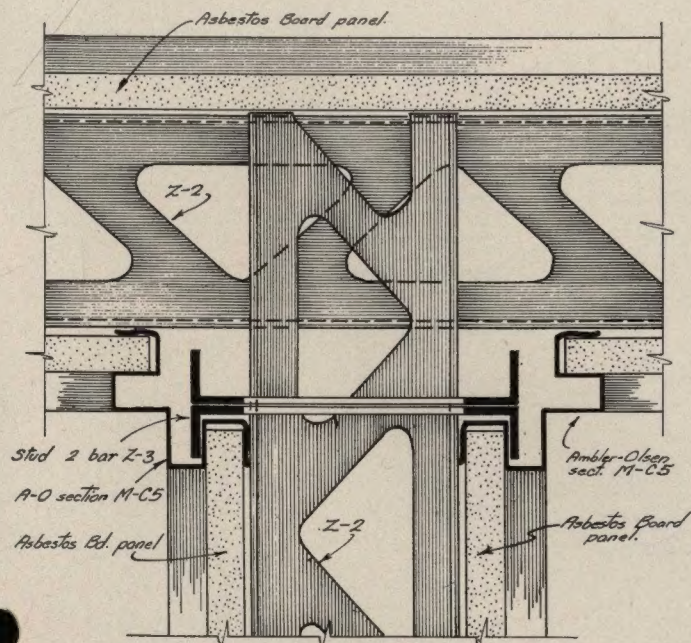
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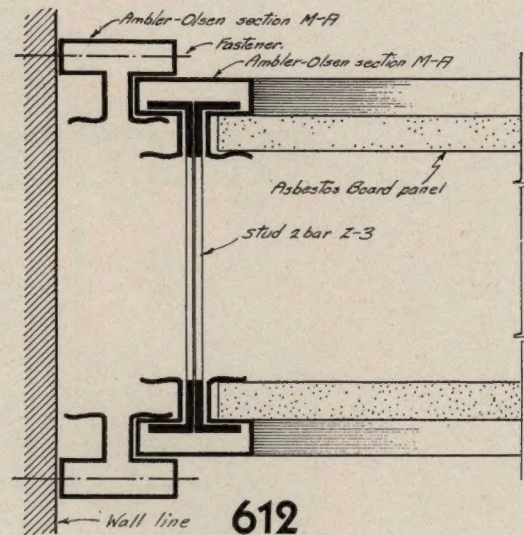
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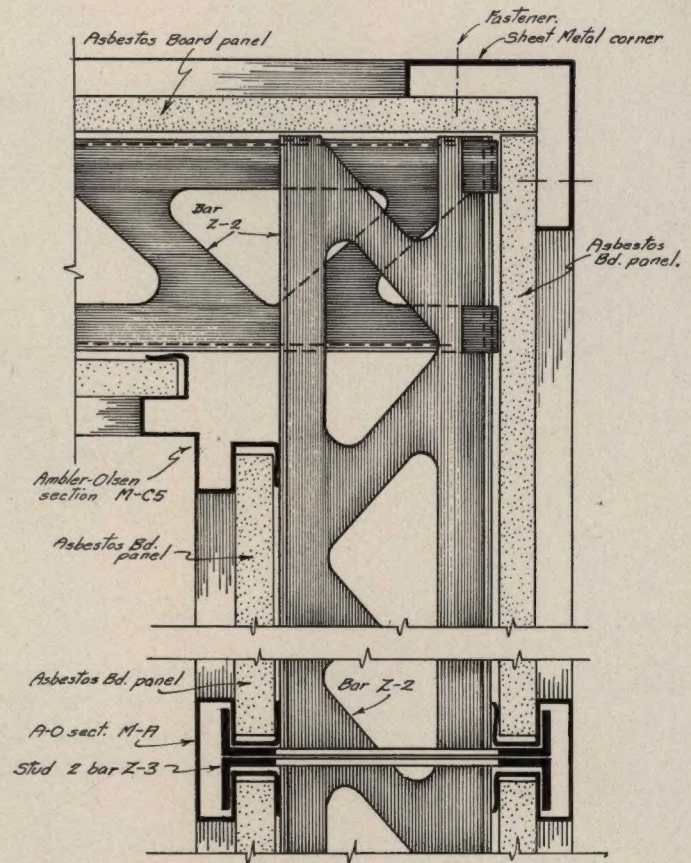
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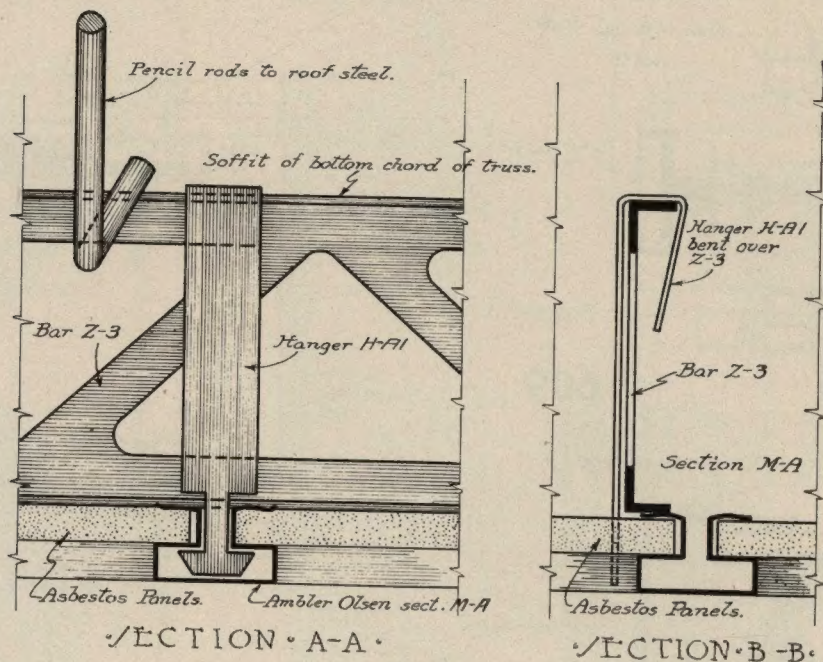


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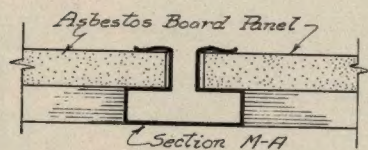
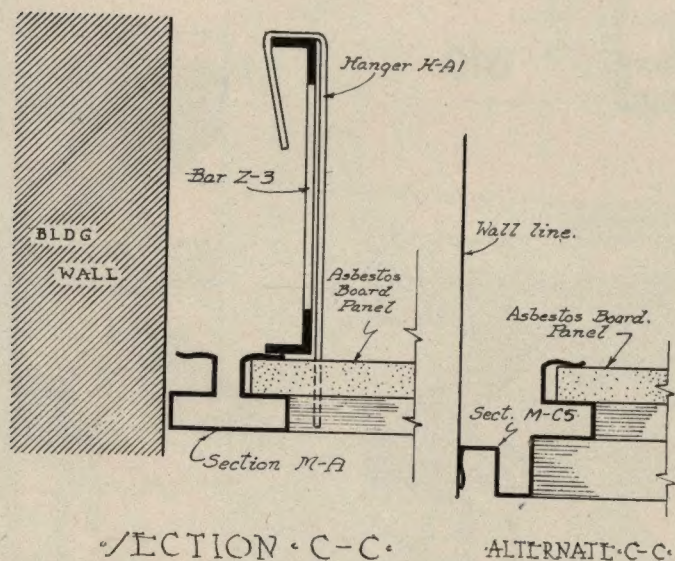


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Details



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